

Serial No. 10/098,630
Amendment Dated April 7, 2004
Reply to Office Action of November 19, 2003
Attorney Docket No. 225/50993

IN THE CLAIMS:

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of Claims:

Claims 1.-2. (Cancelled)

Claim 3. (Currently Amended) Antenna arrangement having a plurality of antennas for different functions and frequencies for a vehicle with a body having a vehicle outer skin, wherein:

said vehicle outer skin comprises a plurality of body components fabricated of sheet metal;

the antennas are arranged in formed in structural cut-outs gaps in the vehicle outer skin; and

at least one of the antennas is arranged in a cut-out gap comprising a joint at which individual components of the vehicle outer skin adjoin one another.

Claim 4. (Cancelled)

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Claim 5. (Currently Amended) Antenna arrangement having a plurality of antennas for different functions and frequencies for a vehicle with a body having a vehicle outer skin, wherein:

said vehicle skin comprises a plurality of body components fabricated of sheet metal;

the antennas are arranged in formed at structural cut-outs gaps in the vehicle outer skin; [[and]]

at least one cut-out gap is formed by a slot in ~~the vehicle outer skin~~ said sheet metal; and

the slot ~~in the vehicle skin~~ is dimensioned in such a way that [[it]] the slot itself forms a slot antenna.

Claim 6. (Cancelled)

Claim 7. (Currently Amended) Antenna arrangement according to claim 3, wherein:

at least one cut-out gap is formed by a slot in ~~the vehicle outer skin~~ said sheet metal; and

the slot ~~in the vehicle skin~~ is dimensioned in such a way that it forms a slot antenna.

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Claims 8.-26. (Cancelled)

Claim 27. (Currently Amended) A passenger vehicle comprising:

a vehicle body having an outer skin formed by conjoining a plurality of body components fabricated of sheet metal; and

~~panelling elements mounted on the vehicle outer skin; and~~

a plurality of antennas having respective different functions and frequency characteristics; wherein

the antennas are disposed in at least one of cutouts formed at gaps in the vehicle outer skin ,~~and said panelling elements;~~ and

said cutouts gaps comprise at least one of ~~a ventilation opening through said vehicle skin,~~ a joint at which individual components of the vehicle skin adjoin one another and a slot in said sheet metal, which slot is dimensioned in such a way that said slot itself forms a slot antenna.

Claim 28. (Previously Presented) A passenger vehicle according to claim 27, wherein said antennae include antennas for:

(a) AM radio reception;

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(b) FM radio reception; and

(c) a vehicle locking system

Claim 29. (Previously Presented) A passenger vehicle according to claim 28, wherein said antennas include antennas for:

a GPS system.

Claim 30. (Previously Presented) A passenger vehicle according to claim 28, wherein said antennas include antennas for:

a mobile telephone.

Claim 31. (Previously Presented) A passenger vehicle according to claim 28, wherein said antennas include antennas for:

a satellite radio.

Claim 32. (Previously Presented) A passenger vehicle according to claim 28, wherein said antennas include antennas for:

a distance determining radio system.

Claim 33. (Currently Amended) A method of making a passenger vehicle comprising:

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placing a vehicle outer skin over a vehicle frame said vehicle skin
comprising a plurality of conjoined body components fabricated of sheet metal;
and

~~mounting panelling elements on the vehicle outer skin; and~~

installing a plurality of antennas having respective different
functions and frequency characteristics; wherein

the installing of antennas includes ~~disposing forming~~ the antennas
~~in at least one of cutouts as gaps in the vehicle outer skin, and said panelling~~
~~elements said sheet metal; and~~

~~said cutouts gaps~~ comprise at least one of ~~a ventilation opening~~
~~through said vehicle skin,~~ a joint at which individual components of the vehicle
skin adjoin one another [[and]] a [[seat]] slot in said sheet metal, which slot is
dimensioned in such a way that said slot itself forms a slot antenna.

Claim 34. (Original) A method according to claim 33, wherein said
antennae includes antennas for:

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- (d) AM radio reception;
- (e) FM radio reception; and
- (f) a vehicle locking system

Claim 35. (Original) A method of making a passenger vehicle according to claim 33, wherein said installing includes forming at least one of said antennas as a slot antenna disposed in a joint between two parts of the outer skin.

Claim 36. (Original) A method of making a passenger vehicle according to claim 33, wherein said installing includes embedding at least one of said antennas in a respective panelling element.

* Claim 37. (Cancelled)

Claim 38. (New) The antenna arrangement according to Claim 3, further comprising panelling members which are mounted on the vehicle outer skin and cover said gaps, wherein:

said panelling members are made from a material which is one of a dielectric material, an insulator material and a material which is permeable to electromagnetic radiation;

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said antennas are discrete manufactured elements, which are separate from the panelling members.